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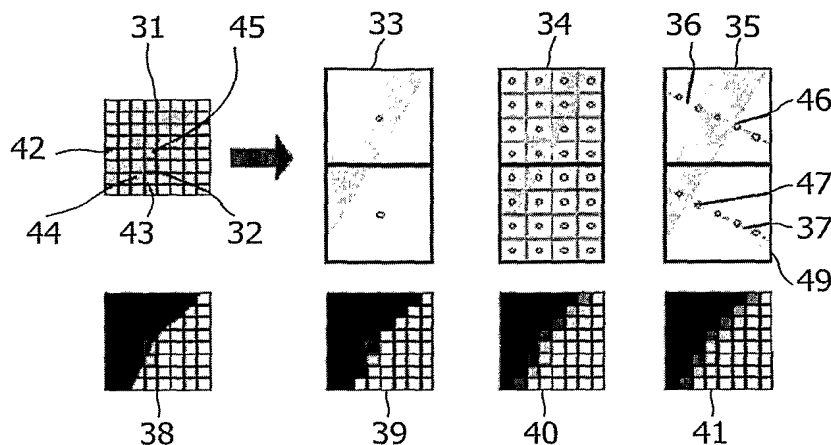
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(54) Title: ADAPTIVE SAMPLING ALONG EDGES FOR SURFACE RENDERING



(57) Abstract: High frequency signals cannot be reconstructed properly from sampled data if the sampling frequency lies below the Nyquist rate. The invention addresses this problem by choosing few additional sample points along a trajectory intersecting the region comprising the high frequency signals, such as an edge. Intermediate rendering data is used to determine the additional sample points. Therefore, according to an exemplary embodiment of the present invention, 4 adaptively chosen sample points per pixel may provide a visual quality comparable to 16 times super-sampling, but at a much lower computational cost.



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